

EAST Search History**EAST Search History (Prior Art)**

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|---|---------------------------|------------------|---------|---------------------|
| S1 | 1 | ("6379821").PN. | US-PGPUB; USPAT | OR | OFF | 2007/10/02 09:06 |
| S2 | 1 | Pct/jp04/16075.pct. | US-PGPUB; USPAT | ADJ | ON | 2007/10/02 09:08 |
| S3 | 663 | 148/325.ccls. | US-PGPUB; USPAT | ADJ | ON | 2007/11/08 09:23 |
| S4 | 99 | 148/909.ccls. | US-PGPUB; USPAT | ADJ | ON | 2007/11/08 09:34 |
| S5 | 257 | stainless steel and (C or carbon) same (Si or silicon) same (Mn or manganese) same (P or phosphorus) same (S or silicon) same (Cr or chromium) same (Ni or nickel) same (Mo or molybdenum) same (V or vanadium) same (N or nickel) same (O or oxygen) | US-PGPUB; USPAT | ADJ | ON | 2007/11/08 09:36 |
| S6 | 145 | 420/61.ccls. | US-PGPUB; USPAT | ADJ | ON | 2007/11/08 09:40 |
| S7 | 669 | 148/325.ccls. | US-PGPUB; USPAT | ADJ | ON | 2008/04/23 16:09 |
| S8 | 100 | 148/909.ccls. | US-PGPUB; USPAT | ADJ | ON | 2008/04/23 16:09 |
| S9 | 267 | stainless steel and (C or carbon) same (Si or silicon) same (Mn or manganese) same (P or phosphorus) same (S or silicon) same (Cr or chromium) same (Ni or nickel) same (Mo or molybdenum) same (V or vanadium) same (N or nickel) same (O or oxygen) | US-PGPUB; USPAT | ADJ | ON | 2008/04/23 16:10 |
| S10 | 149 | 420/61.ccls. | US-PGPUB; USPAT | ADJ | ON | 2008/04/23 16:10 |
| S11 | 1 | ("20070074793").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/04/23 16:13 |

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| S12 | 277 | stainless steel and (C or carbon) same (Si or silicon) same (Mn or manganese) same (P or phosphorus) same (S or silicon) same (Cr or chromium) same (Ni or nickel) same (Mo or molybdenum) same (V or vanadium) same (N or nickel) same (O or oxygen) | US-PGPUB; USPAT | ADJ | ON | 2008/08/27 15:32 |
| S13 | 150 | 420/61.ccls. | US-PGPUB; USPAT | ADJ | ON | 2008/08/27 15:32 |
| S14 | 673 | 148/325.ccls. | US-PGPUB; USPAT | ADJ | ON | 2008/08/27 15:32 |
| S15 | 102 | 148/909.ccls. | US-PGPUB; USPAT | ADJ | ON | 2008/08/27 15:32 |
| S16 | 874 | S13 or S14 or S15 | US-PGPUB; USPAT | ADJ | ON | 2008/08/27 15:34 |
| S17 | 53 | S12 and S16 | US-PGPUB; USPAT | ADJ | ON | 2008/08/27 15:34 |
| S18 | 2 | "6692592" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2009/02/09 14:50 |
| S19 | 3 | "2003217789" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2009/02/09 15:19 |
| S20 | 2 | "20030217789" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2009/02/09 15:20 |
| S21 | 5 | "2005034790" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2009/02/09 15:24 |
| S22 | 2 | "20050034790" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2009/02/09 15:24 |
| S23 | 8 | "5232520" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2009/02/09 15:40 |

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| S24 | 89 | (carbon or C) same (silicon or Si) same (manganese or Mn) same (phosphorus or P) same (sulfur or S) same (chromium or Cr) same (nickel or Ni) same (molybdenum or Mo) same (vandium or V) same (nitrogen or N) same (oxygen or O) and seamless | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2009/02/09 15:43 |
| S25 | 39 | (carbon or C) same (silicon or Si) same (manganese or Mn) same (phosphorus or P) same (sulfur or S) same (chromium or Cr) same (nickel or Ni) same (molybdenum or Mo) same (vandium or V) same (nitrogen or N) same (oxygen or O) and seamless and ferrit\$4 and austenit\$4 and martensit\$4 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2009/02/09 15:43 |
| S26 | 5 | (carbon or C) same (silicon or Si) same (manganese or Mn) same (phosphorus or P) same (sulfur or S) same (chromium or Cr) same (nickel or Ni) same (molybdenum or Mo) same (vandium or V) same (nitrogen or N) same (oxygen or O) and seamless and duplex and austenit\$4 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2009/02/09 16:12 |
| S27 | 0 | ("6692592").URPN. | USPAT | ADJ | ON | 2009/02/09 16:21 |
| S28 | 2 | "20030127162" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2009/02/09 16:23 |
| S29 | 92 | kidani.in. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2009/02/11 15:03 |

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| S30 | 5 | kidani.in. and martensit \$4 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2009/02/11 15:04 |
| S31 | 22 | amaya.in. and seamless | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2009/02/11 15:15 |
| S32 | 17 | amaya.in. and seamless and martensit\$4 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2009/02/11 15:16 |
| S33 | 5 | ("2002004009").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2009/02/12 12:23 |
| S34 | 163 | 420/61.ccls. | US-PGPUB; USPAT | ADJ | ON | 2009/06/30 16:33 |
| S35 | 692 | 148/325.ccls. | US-PGPUB; USPAT | ADJ | ON | 2009/06/30 16:33 |
| S36 | 104 | 148/909.ccls. | US-PGPUB; USPAT | ADJ | ON | 2009/06/30 16:33 |
| S37 | 906 | S34 or S35 or S36 | US-PGPUB; USPAT | ADJ | ON | 2009/06/30 16:33 |
| S38 | 299 | stainless steel and (C or carbon) same (Si or silicon) same (Mn or manganese) same (P or phosphorus) same (S or silicon) same (Cr or chromium) same (Ni or nickel) same (Mo or molybdenum) same (V or vanadium) same (N or nickel) same (O or oxygen) | US-PGPUB; USPAT | ADJ | ON | 2009/06/30 16:33 |
| S39 | 56 | S38 and S37 | US-PGPUB; USPAT | ADJ | ON | 2009/06/30 16:33 |
| S40 | 91 | (carbon or C) same (silicon or Si) same (manganese or Mn) same (phosphorus or P) same (sulfur or S) same (chromium or Cr) same (nickel or Ni) same (molybdenum or Mo) same (vandium or V) same (nitrogen or N) same (oxygen or O) and seamless | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2009/06/30 16:33 |

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| S41 | 41 | (carbon or C) same (silicon or Si) same (manganese or Mn) same (phosphorus or P) same (sulfur or S) same (chromium or Cr) same (nickel or Ni) same (molybdenum or Mo) same (vandium or V) same (nitrogen or N) same (oxygen or O) and seamless and ferrit\$4 and austenit\$4 and martensit\$4 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2009/06/30 16:33 |
| S42 | 5 | (carbon or C) same (silicon or Si) same (manganese or Mn) same (phosphorus or P) same (sulfur or S) same (chromium or Cr) same (nickel or Ni) same (molybdenum or Mo) same (vandium or V) same (nitrogen or N) same (oxygen or O) and seamless and duplex and austenit\$4 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2009/06/30 16:33 |
| S43 | 906 | S34 or S35 or S36 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2009/06/30 16:35 |
| S44 | 688 | stainless steel and (C or carbon) same (Si or silicon) same (Mn or manganese) same (P or phosphorus) same (S or silicon) same (Cr or chromium) same (Ni or nickel) same (Mo or molybdenum) same (V or vanadium) same (N or nickel) same (O or oxygen) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2009/06/30 16:37 |
| S45 | 56 | S43 and S44 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2009/06/30 16:37 |
| S46 | 124 | S44 and yield strength | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2009/06/30 16:37 |

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| S47 | 135 | S44 and yield (strength or stress) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2009/06/30 16:37 |
| S48 | 2 | "20030057695" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2010/01/22 09:16 |
| S49 | 2 | "20030127162" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2010/01/22 10:00 |
| S50 | 2 | "20030217789" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2010/01/22 10:38 |
| S51 | 2 | "20050034790" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2010/01/22 10:42 |
| S52 | 2 | "20040140023" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2010/01/22 10:55 |
| S53 | 2 | "20030102058" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2010/01/22 10:56 |
| S54 | 4 | "6391253" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2010/01/22 12:10 |
| S55 | 2 | "5626694" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2010/01/22 12:11 |
| S56 | 6 | "5171384" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2010/01/22 13:43 |
| S57 | 8 | "5232520" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2010/01/22 13:48 |
| S58 | 12 | "3574002" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2010/01/22 13:54 |

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|-----|-----|---|--|-----|----|---------------------|
| S59 | 2 | "2001140040" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2010/01/25 10:43 |
| S60 | 166 | 420/61.ccls. | US-PGPUB; USPAT | ADJ | ON | 2010/01/25 14:41 |
| S61 | 702 | 148/325.ccls. | US-PGPUB; USPAT | ADJ | ON | 2010/01/25 14:41 |
| S62 | 105 | 148/909.ccls. | US-PGPUB; USPAT | ADJ | ON | 2010/01/25 14:41 |
| S63 | 920 | S60 or S61 or S62 | US-PGPUB; USPAT | ADJ | ON | 2010/01/25 14:41 |
| S64 | 312 | stainless steel and (C or carbon) same (Si or silicon) same (Mn or manganese) same (P or phosphorus) same (S or silicon) same (Cr or chromium) same (Ni or nickel) same (Mo or molybdenum) same (V or vanadium) same (N or nickel) same (O or oxygen) | US-PGPUB; USPAT | ADJ | ON | 2010/01/25 14:41 |
| S65 | 58 | S64 and S63 | US-PGPUB; USPAT | ADJ | ON | 2010/01/25 14:41 |
| S66 | 95 | (carbon or C) same (silicon or Si) same (manganese or Mn) same (phosphorus or P) same (sulfur or S) same (chromium or Cr) same (nickel or Ni) same (molybdenum or Mo) same (vandium or V) same (nitrogen or N) same (oxygen or O) and seamless | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2010/01/25 14:41 |
| S67 | 42 | (carbon or C) same (silicon or Si) same (manganese or Mn) same (phosphorus or P) same (sulfur or S) same (chromium or Cr) same (nickel or Ni) same (molybdenum or Mo) same (vandium or V) same (nitrogen or N) same (oxygen or O) and seamless and ferrit\$4 and austenit\$4 and martensit\$4 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2010/01/25 14:41 |

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| S68 | 5 | (carbon or C) same (silicon or Si) same (manganese or Mn) same (phosphorus or P) same (sulfur or S) same (chromium or Cr) same (nickel or Ni) same (molybdenum or Mo) same (vandium or V) same (nitrogen or N) same (oxygen or O) and seamless and duplex and austenit\$4 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2010/01/25 14:41 |
| S69 | 920 | S60 or S61 or S62 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2010/01/25 14:41 |
| S70 | 704 | stainless steel and (C or carbon) same (Si or silicon) same (Mn or manganese) same (P or phosphorus) same (S or silicon) same (Cr or chromium) same (Ni or nickel) same (Mo or molybdenum) same (V or vanadium) same (N or nickel) same (O or oxygen) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2010/01/25 14:41 |
| S71 | 58 | S69 and S70 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2010/01/25 14:41 |
| S72 | 129 | S70 and yield strength | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2010/01/25 14:41 |
| S73 | 140 | S70 and yield (strength or stress) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2010/01/25 14:41 |
| S74 | 2 | "7767037" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2010/09/16 09:30 |
| S75 | 9 | "4721600" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2010/09/16 11:01 |

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| S76 | 2032 | 420/61,69,70.ccls. or 148/325,909,592.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2010/09/27 10:16 |
| S77 | 341 | stainless steel and (C or carbon) same (Si or silicon) same (Mn or manganese) same (P or phosphorus) same (S or silicon) same (Cr or chromium) same (Ni or nickel) same (Mo or molybdenum) same (V or vanadium) same (N or nickel) same (O or oxygen) | US-PGPUB; USPAT | ADJ | ON | 2010/09/27 10:16 |
| S78 | 3216 | stainless steel and (C or carbon) same (Si or silicon) same (Mn or manganese) same (Cr or chromium) same (Ni or nickel) same (Mo or molybdenum) same (V or vanadium) same (N or nickel) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2010/09/27 10:18 |
| S79 | 317 | S76 and S78 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2010/09/27 10:18 |
| S80 | 239 | (carbon or C) same (silicon or Si) same (manganese or Mn) same (chromium or Cr) same (nickel or Ni) same (molybdenum or Mo) same (vandium or V) same (nitrogen or N) and seamless | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2010/09/27 10:19 |
| S81 | 49 | S76 and S80 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2010/09/27 10:19 |

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| S82 | 90 | (carbon or C) same (silicon or Si) same (manganese or Mn) same (chromium or Cr) same (nickel or Ni) same (molybdenum or Mo) same (vandium or V) same (nitrogen or N) and seamless and ferrit \$4 and austenit\$4 and martensit\$4 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2010/09/27 10:20 |
| S83 | 11 | (carbon or C) same (silicon or Si) same (manganese or Mn) same (chromium or Cr) same (nickel or Ni) same (molybdenum or Mo) same (vandium or V) same (nitrogen or N) and seamless and duplex and austenit\$4 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2010/09/27 10:20 |
| S84 | 11 | (carbon or C) same (silicon or Si) same (manganese or Mn) same (chromium or Cr) same (nickel or Ni) same (molybdenum or Mo) same (vanadium or V) same (nitrogen or N) and seamless and duplex and austenit\$4 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2010/09/27 10:20 |
| S85 | 97 | (carbon or C) same (silicon or Si) same (manganese or Mn) same (chromium or Cr) same (nickel or Ni) same (molybdenum or Mo) same (vanadium or V) same (nitrogen or N) and seamless and ferrit \$4 and austenit\$4 and martensit\$4 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2010/09/27 10:21 |
| S86 | 287 | (carbon or C) same (silicon or Si) same (manganese or Mn) same (chromium or Cr) same (nickel or Ni) same (molybdenum or Mo) same (vanadium or V) same (nitrogen or N) and seamless | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2010/09/27 10:21 |

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| S87 | 43 | S76 and S85 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2010/09/27 10:21 |
| S88 | 736 | stainless steel and (C or carbon) same (Si or silicon) same (Mn or manganese) same (P or phosphorus) same (S or silicon) same (Cr or chromium) same (Ni or nickel) same (Mo or molybdenum) same (V or vanadium) same (N or nickel) same (O or oxygen) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2010/09/27 10:21 |
| S89 | 138 | S88 and yield strength | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2010/09/27 10:21 |
| S90 | 150 | S88 and yield (strength or stress) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2010/09/27 10:21 |

EAST Search History (Interference)

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|--|----------------|------------------|---------|---------------------|
| S91 | 1023 | 420/61,69,70.ccls. or 148/325,909,592.ccls. | USPAT; UPAD | ADJ | ON | 2010/09/27 10:22 |
| S92 | 70 | (carbon or C) same (silicon or Si) same (manganese or Mn) same (chromium or Cr) same (nickel or Ni) same (molybdenum or Mo) same (vanadium or V) same (nitrogen or N) and seamless | USPAT; UPAD | ADJ | ON | 2010/09/27 10:23 |
| S93 | 24 | S91 and S92 | USPAT; UPAD | ADJ | ON | 2010/09/27 10:23 |
| S94 | 36 | (carbon or C) same (silicon or Si) same (manganese or Mn) same (chromium or Cr) same (nickel or Ni) same (molybdenum or Mo) same (vandium or V) same (nitrogen or N) and seamless and ferrit\$4 and austenit\$4 and martensit\$4 | USPAT; UPAD | ADJ | ON | 2010/09/27 10:24 |

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| S95 | 37 | (carbon or C) same (silicon or Si) same (manganese or Mn) same (chromium or Cr) same (nickel or Ni) same (molybdenum or Mo) same (vanadium or V) same (nitrogen or N) and seamless and ferrit\$4 and austenit\$4 and martensit\$4 | USPAT; UPAD | ADJ | ON | 2010/09/27 10:24 |
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